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FILE COVERS 1907 - 2 Mar 2009 VOL 150 ISS 10
FILE LAST UPDATED: 1 Mar 2009 (20090301/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s BaAll2019
L1 151 BAAL12019

```
=> s L1 and electron source
    1526322 ELECTRON
    284276 ELECTRONS
    1616597 ELECTRON
                                (ELECTRON OR ELECTRONS)
    774349 SOURCE
    369839 SOURCES
    1021228 SOURCE
                                (SOURCE OR SOURCES)
    7696 ELECTRON SOURCE
                                (ELECTRON (W) SOURCE)
L2      0 L1 AND ELECTRON SOURCE
```

=> S, Li and schottky electron

30718 SCHOTTKY
2 SCHOTTKIES
30718 SCHOTTKY
(SCHOTTKY OR SCHOTTKIES)
1526322 ELECTRON
284276 ELECTRONS
1616597 ELECTRON
(ELECTRON OR ELECTRONS)
82 SCHOTTKY ELECTRON
(SCHOTTKY(W) ELECTRON)
L3 0 L1 AND SCHOTTKY ELECTRON

=> S (molybdenum or tungsten or w or Mo) and single crystal
254535 MOLYBDENUM
36 MOLYBDENUMS
254540 MOLYBDENUM
(MOLYBDENUM OR MOLYBDENUMS)
214173 TUNGSTEN
31 TUNGSTENS
214177 TUNGSTEN
(TUNGSTEN OR TUNGSTENS)
445738 W
546934 MO
64007 MOS
607545 MO
(MO OR MOS)
1487776 SINGLE
3562 SINGLES
1490791 SINGLE
(SINGLE OR SINGLES)
1450897 CRYSTAL
713763 CRYSTALS
1763274 CRYSTAL
(CRYSTAL OR CRYSTALS)
280904 SINGLE CRYSTAL
(SINGLE(W)CRYSTAL)

L4 19030 (MOLYBDENUM OR TUNGSTEN OR W OR MO) AND SINGLE CRYSTAL

=> S L1 and L4
L5 1 L1 AND L4

=> display L5 total ibib abs

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1962:473324 CAPLUS
DOCUMENT NUMBER: 57:73324
ORIGINAL REFERENCE NO.: 57:14566a-c
TITLE: Fluoride ion compensated substitutions of bivalent cations in BaFeI₂O₁₉ and other hexagonal oxides
AUTHOR(S): Banks, E.; Robbins, M.; Tauber, A.
CORPORATE SOURCE: Polytech. Inst. of Brooklyn, Brooklyn, NY
SOURCE: Journal of the Physical Society of Japan (1962),
17(Suppl. B-I), 196-200
CODEN: JUPSAU; ISSN: 0031-9015
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB Samples of hexagonal, magnetoplumbite-type oxides were prepared, with bivalent cations and fluoride substituted for trivalent cations and O, having the general BaMII_xMIII_{12-x}O_{19+x}F_x, where MII = Al⁺⁺⁺, Ga⁺⁺, formula and Fe⁺⁺⁺, and MII = Ni⁺⁺, Co⁺⁺, Cu⁺⁺, and Zn⁺⁺. Optical spectra show that the M⁺⁺ preferentially occupy tetrahedral sites in the Al samples, and octahedral (Ni⁺⁺) or tetrahedral (Co⁺⁺) sites in the Ga

samples. The powdered ferrites of the above series show an apparent increase in magnetization with increasing $(\text{Ni}^{++} + \text{F}^-)$ concentration. Single crystals of the ferrites were grown from a NaFeO_2 flux, yielding the magnetoplumbite phase for $(\text{Cu}^{++} + \text{F}^-)$ -substituted ferrites. For all $(\text{Ni}^{++} + \text{F}^-)$ and high $(\text{Co}^{++} + \text{F}^-)$ -substituted phases, the structure is that of the known W phase. Magnetization data in the easy direction show saturation moments in agreement with the assumption that charge-compensated Ni^{++} is in tetrahedral sites with moments antiparallel to the net magnetization, while uncompensated Ni^{++} is in octahedral positions with parallel moments.

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=> log off
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